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L1: Entry 1 of 2

File: JPAB

Aug 27, 1996

PUB-NO: JP408217913A

DOCUMENT-IDENTIFIER: JP 08217913 A

TITLE: MOISTURE-CONDITIONING/GAS-ABSORBING MOLDING

PUBN-DATE: August 27, 1996

## INVENTOR-INFORMATION:

NAME

COUNTRY

KISHIMOTO, HISAO

ISOJIMA, EIJI

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

FUJI PHOTO FILM CO LTD

SASAKI KAGAKU YAKUHHN KK

APPL-NO: JP07026874

APPL-DATE: February 15, 1995

INT-CL (IPC): C08 K 3/30; B01 D 53/14; C08 K 3/22; C08 L 101/00

## ABSTRACT:

PURPOSE: To obtain a moisture-conducting/gas-absorbing molding made proof for a long time against deterioration due to moisture absorption or gas absorption by molding a mixture obtained by kneading a thermoplastic resin, magnesium sulfate as a moisture conditioner and a specified gas-absorbing composition.

CONSTITUTION: This moisture-conditioning/gas-absorbing molding is obtained by molding a mixture obtained by kneading a thermoplastic resin 1, humidity-conditioning magnesium sulfate 2 represented by the formula:  $MgSO_4 \cdot nH_2O$  (wherein  $0 \leq n \leq 3$ ) and having a mean particle diameter of  $1-30 \mu m$  and a gas-absorbing composition 3 containing  $MgO$  and  $Al_2O_3$ . This molding is made proof for a long time against deterioration and is capable of maintaining the quality and function stably and effectively. If a compound 4 having a function of an indicator which can indicate the degree of moisture absorption and the degree of gas absorption is added to the molding, the time when the molding needs to be changed can be indicated to make the more stable storage of the molding possible.

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
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☐ 2. Document ID: JP 08217913 A

L1: Entry 2 of 2

File: DWPI

Aug 27, 1996

DERWENT-ACC-NO: 1996-439674  
DERWENT-WEEK: 199644  
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TITLE: Moisture-regulating and gas-absorbing moulding for storing drugs, etc. -  
obtd. by kneading and moulding thermoplastic resin with moisture regulating  
magnesium sulphate and gas absorbing compsn.

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
FUJI PHOTO FILM CO LTD	FUJF
SASAKI KAGAKU YAKUHHN KK	SASAN

PRIORITY-DATA: 1995JP-0026874 (February 15, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 08217913 A</u>	August 27, 1996		010	C08K003/30

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 08217913A	February 15, 1995	1995JP-0026874	

INT-CL (IPC): B01 D 53/14; C08 K 3/22; C08 K 3/30; C08 L 101/00

ABSTRACTED-PUB-NO: JP 08217913A  
BASIC-ABSTRACT:

Moisture-regulating and gas-absorbing moulding is formed by kneading and moulding thermoplastic resin with moisture regulating magnesium sulphate of formula,  $\text{MgSO}_4 \cdot n\text{H}_2\text{O}$  ( $n = 0-3$ ) and 1-30 micron in average particle size and a gas-absorbing compsn. contg. magnesium oxide and alumina.

USE/ADVANTAGE - The moulding is useful for storing e.g. recording material (e.g. video tape or floppy disk), food, drugs or electronic parts for a long period without deterioration. The moulding prevents the deterioration of goods stored by the absorption of moisture or gases for a long period.

The moulding has activity for absorbing acetic acid gas. The moulding indicates the degree of absorption of moisture or gases. Pref. thermoplastic resin is e.g. polyethylene, polypropylene or polycarbonate, pref. low density polyethylene. The amt. of moisture-regulating magnesium sulphate used is 5-400 pts.wt. (10-50) pts.wt. per 100 pts.wt thermoplastic resin. Gas-absorbing agent contg. MgO and  $\text{Al}_2\text{O}_3$  is pref. e.g. a compsn. of formula,  $6\text{MgO} \cdot \text{Al}_2\text{O}_3 \cdot \text{CO}_2 \cdot n\text{H}_2\text{O}$  ( $n = 10-20$ ) (e.g. 'Tomix AD-500' (RTM)). The amt. of gas-absorbing agent used is 1-100 (5-50) pts.wt. per 100 pts.wt. thermoplastic resin. The average particle size of the gas-absorbing agent is 1-50 (2-15) micron. The gas-absorbing agent absorbs gases such as acetic acid, ammonia, hydrogen sulfide, hydrochloric acid, acidic gas or trimethylamine. A humidity of 30-40 RH % can be retained for a long period by the moulding. The moulding opt. contains a cpd. having indicator function by colour change such as a compsn. contg. anhydrous cobalt, chloride. The moulding is made by e.g. extrusion-moulding and the form is pref. plate.

CHOSEN-DRAWING: Dwg.0/8

TITLE-TERMS: MOIST REGULATE GAS ABSORB MOULD STORAGE DRUG OBTAIN KNEAD MOULD  
THERMOPLASTIC RESIN MOIST REGULATE MAGNESIUM SULPHATE GAS ABSORB COMPOSITION

## ADDL-INDEXING-TERMS:

RECORDING MATERIAL FOOD

DERWENT-CLASS: A97 B07 E33 J01 L03

CPI-CODES: A08-M04; A08-M10; A12-P01; B04-C03B; B05-A01B; B05-A03; B11-C06; E34-B03;  
J01-E03C; L03-B05D3; L03-J;

## CHEMICAL-CODES:

## Chemical Indexing M1 \*01\*

## Fragmentation Code

H7 H721 M210 M212 M320 M416 M423 M424 M431 M610  
M740 M782 M903 M904 M910 R043 R045 V743

## Specific Compounds

00326M 00326Q

## Registry Numbers

0326S 0326U

## Chemical Indexing M1 \*02\*

## Fragmentation Code

H7 H721 M210 M213 M231 M320 M416 M423 M424 M431  
M610 M740 M782 M903 M904 M910 R043 R045 V743

## Specific Compounds

00964M 00964Q

## Registry Numbers

0964S 0964U

## Chemical Indexing M2 \*03\*

## Fragmentation Code

A212 A940 C108 C316 C540 C730 C801 C802 C803 C804  
C805 M411 M424 M431 M740 M782 M903 M904 M910 R043  
R045

## Specific Compounds

01680M

## Registry Numbers

1680U

## Chemical Indexing M3 \*03\*

## Fragmentation Code

A212 A940 C108 C316 C540 C730 C801 C802 C803 C804  
C805 M411 M424 M431 M740 M782 M903 M904 M910 R043  
R045

## Specific Compounds

01680M

## Registry Numbers

1680U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0326S; 0326U ; 0964S ; 0964U ; 1680U

## ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; R00326 G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D82 ; H0000  
; H0317 ; S9999 S1434 ; P1172 P1161 ; S9999 S1581 ; P1150 Polymer Index [1.2] 018 ; R00964  
G0044 G0033 G0022 D01 D02 D12 D10 D51 D53 D58 D83 ; H0000 ; H0317 ; S9999 S1434 ; S9999  
S1581 ; P1150 ; P1343 Polymer Index [1.3] 018 ; H0317 ; P0862 P0839 F41 F44 D01 D63 ; S9999  
S1434 ; S9999 S1581 Polymer Index [1.4] 018 ; ND01 ; ND04 ; Q9999 Q9370 ; Q9999 Q8366\*R ;  
B9999 B3383\*R B3372 ; B9999 B3407 B3383 B3372 ; N9999 N6439 ; N9999 N6440\*R ; Q9999  
Q8855\*R ; Q9999 Q7589\*R ; Q9999 Q8059 Q7987 ; N9999 N5970\*R Polymer Index [1.5] 018 ;  
R01680 D00 F60 Mg 2A O\* 6A S\* ; A999 A022 A000 ; S9999 S1456\*R ; B9999 B5209 B5185 B4740  
Polymer Index [1.6] 018 ; D00 F20 F44 Mg 2A Al 3A C\* 4A O\* 6A ; A999 A000\*R ; S9999 S1456\*R  
; B9999 B5209 B5185 B4740 Polymer Index [1.7] 018 ; G2700\*R D00 D70 Co 8B Tr Cl 7A ; A999  
A748

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-138337